

Appl. No. 10/587,891
Amdt. dated Dec. 19, 2007
Reply to Office action of Oct. 01, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1- 18 (canceled)

New set of claims:

Claims 1 - 10 as provided hereby in the appendix.

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CLAIMS

1- Double-barrelled body for a personal firearm wherein the improvement comprises:

- 10 - a central stock (1) supporting three handles (2, 3 & 4) located under said stock and arranged such that:
- the front handle (3) constitutes a pump-action device and a deployable bi-pod (35) unit,
 - the central handle (2) houses a barrel distribution and fire control unit,
 - the rear handle (4) houses magazines (22 & 23) with the function as an ergonomic butt.
- 15 - a telescopic bayonet (13) sliding around a barrel,
- a high impulse ammunition shock absorber unit (71 to 79).

2 - Double-barrelled body for a personal firearm according to claim 1 characterized in that the deployable bi-pod (35) be constituted with:

- 20 • an integrated bi-pod unit including:
- (42) a pivot/support unit for both pump/handles halves,
 - (3 bis) two half-handles,
 - 25 - (43) a casing/support for each half-handle,
 - (51) an alternate retractable cocking lever,
 - (52) alternate cocking lever section enlargement,
 - (46) lateral clearance axis per half pump/handle,
 - (47) a half pump/handle deployment split spring (spiral or U shaped),
 - 30 - (49) a half pump/handle retracted position pin,
 - (35) two bi-pod telescopic deployable parts,
 - (36) a bi-pod telescopic deployable part arrester per handle,
 - (37) a telescopic deployable bi-pod parts length adjustment arrester per handle,
 - (38) a telescopic deployed bi-pod parts erasable locker per handle,
 - 35 - (48) a split angular abutment for each half pump/handle,
 - a steering/base block (39) unit for said bi-pod including:
 - (39) a handle base block for the handle/bi-pod unit,
 - (34) a trigger integral with the support/guide block (39) of the pump/handle unit,
 - 40 - (40) a roll clearance effaceable neutral abutment for the steering/base block (39) of the pump/handle unit,
 - (41) a shaft for coupling the handle base block (39) of the pump/handle unit with the cocking rod unit (50), and to simultaneously retract the cocking lever (51),
 - (44) a locker for pivot/support unit (42) in its steering/base block (39) housing,
 - 45 - (45) a yaw clearance effaceable neutral abutment of pivot/support unit (42) of half pump/handles.

- 5 3 - Double-barrelled body for a personal firearm according to claims 1 characterized in that the pump-action device includes:
- (50) a steering block for cocking rod and alternate cocking lever,
 - (51) an alternate retractable coking lever,
 - (52) alternate coking lever section enlargement,
 - 10 - (53) alternate coking lever stub,
 - (54) alternate coking lever extended position recoil spring,
 - (27) a breech cocking shaft/rod,
 - (55) a smooth link (rotule, axis... debating in site and azimuth) between the shaft and steering block (50),
 - 15 4 - Double-barrelled body for a personal firearm according to claims 1 characterized in that the pump/handle/bi-pod unit includes:
 - (56) a steering rod for the handle base block (39) of the pump/handle unit and steering block (50) for shaft (27) and cocking lever (51),
 - 20 - (57) a recoil spring for steering block (50) unit,
 - (58) a cocking rod and alternate lever (51) steering block (50) unit course abutment,
 - (59) a travelling groove for erasable neutral abutment (40) of the steering block (50) unit.
 - 25 5 - Double-barrelled body for a personal firearm according to claims 1 characterized in that the bi-pod unit alternate cocking lever (51) device includes a shaft (41) for coupling the handle base block (39) of the pump/handle unit to the cocking rod unit (50), and a stub (53) arranged on said lever (51), said stub cooperating with said shaft in order to ensure ensure the deployment, assisted by the return spring (54), or the retraction of said lever (51) following a two blocs (39 & 50) splitting or merging.
 - 30 6 - Double-barrelled body for a personal firearm according to claims 1 characterized in that the barrel distribution device be composed of a two-three positions (left-neutral-right) selector located on the central handle (2) under the trigger-guard in order to be permanently accessible by major finger, and of a single stem (26) integral with said selector including at its end a mechanism (fork, locking pin ...) cooperating with the breech cocking shaft/rod (27) in order to favour the switching of said rod towards the appropriate breech (14 or 15) for its engagement simultaneously following said selector switching.
 - 35 7 - Double-barrelled body for a personal firearm according to claim 1 characterized in that the telescopic bayonet/flame mitigator device be composed of an open tube, tapered at one end, telescopic and sliding mounted around a barrel, including a spring arrester (65) cooperating with two arresting notches located on said barrel, one near the bedding (6) and the other at the end, respectively corresponding to the retracted and extended position, said tube including in addition openings (round, oval, rectangular...) (66) eventually harmonized with the barrel rifling are arranged at the circumference of the bayonet in such order that, when extended, they act as a flame mitigator.
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5 8 - Double-barrelled body for a personal firearm according to claim 1 characterized in that the shock absorber unit be composed of:

- a recoil absorber piston (71) located in the barrel axis at the back and integral with the breech,
- a cylinder (72) for recoil absorber piston (71) integral with the breech (15) course abutment (81),
- a distribution/regulation floodgate (74) connected to:

- 10 o a gas port pipe (73) at the level of the piston head (82),
- o a gas driving pipe (73 bis) towards the recoil absorber (72) cylinder,
- o a bleed pipe (79) opening onto weapon's extremity,
- o a return spring (78).

15 9 - Double-barrelled body for a personal firearm according to claim 1 characterized in that the recoil shock absorber houses a distribution/regulation floodgate (74) with a drawer (75), integrating two gas switch pipes (76 & 76 bis), mounted sliding in a housing (squared, oblong...) preventing any self rotation of said drawer. The drawer is kept into position by a return spring (77). The floodgate is connected to the gas port pipe (73) of the piston head (82), to the cylinder damper (73 bis) and bleed (79) pipes.

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